

002750 28042500

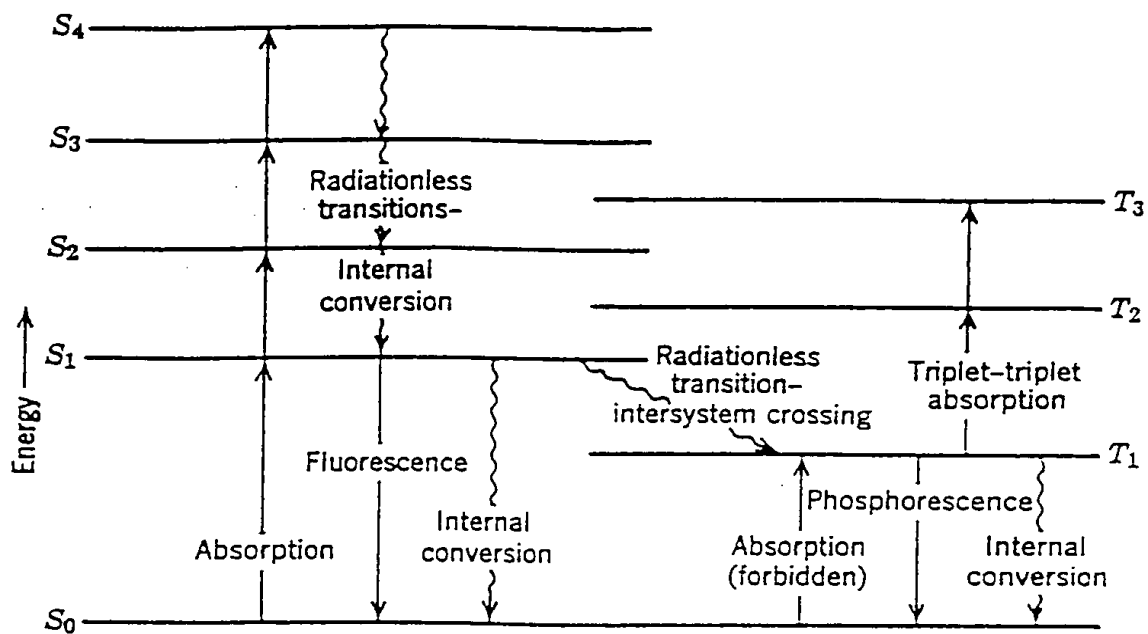


FIG.1

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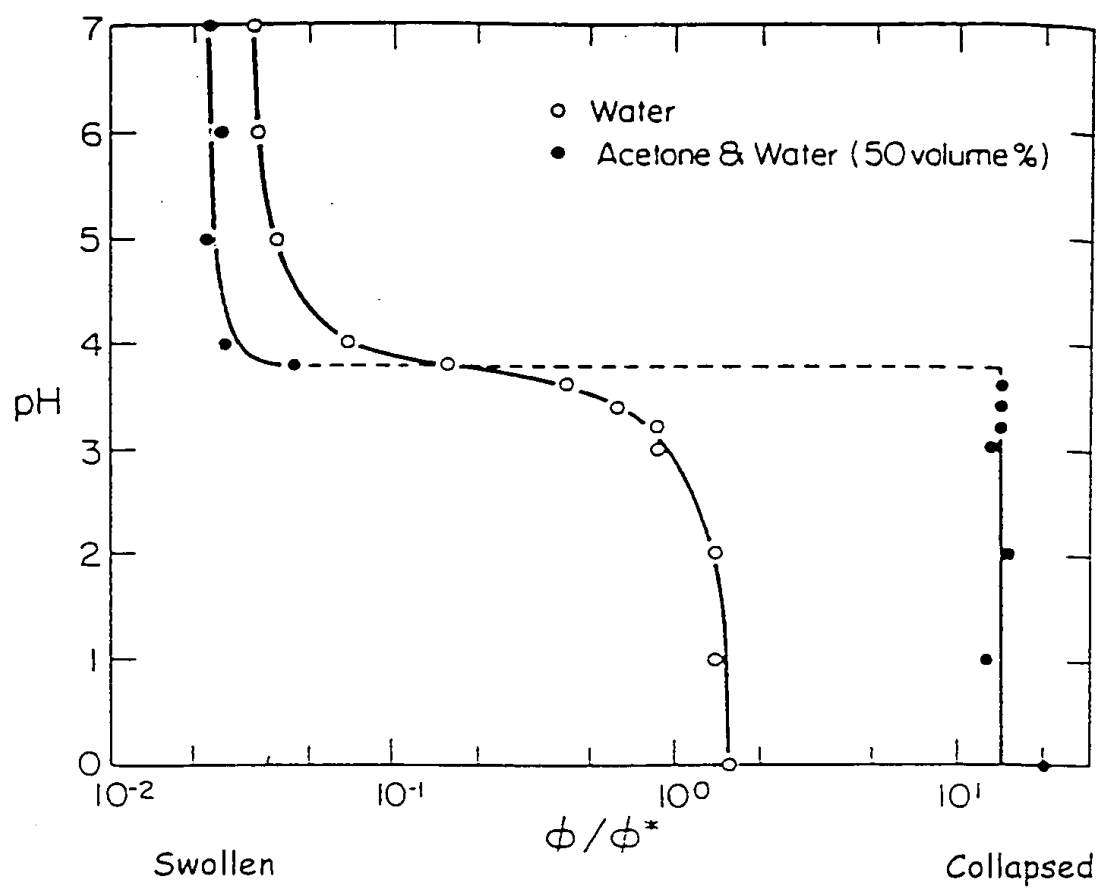
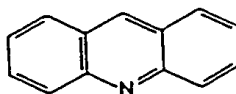


FIG. 2

Reaction	Example	pK(S ₀)	pK(S ₁)	pK(T ₁)	ΔpK
-CO ₂ H <--> -CO ₂ ⁻ + H ⁺	2-Naphthoic acid	4.2	11.0	4.0	0.2
-OH <--> -O ⁻ + H ⁺	2-Naphthol	9.5	2.8	8.1	1.4
-NH ₃ ⁺ <--> -NH ₂ + H ⁺	2-Naphthylamine	4.1	-2.0	3.3	0.8
-NO ₂ H <--> -NO ₂ ⁻ + H ⁺	Nitrobenzene	-11.3	2.3	-9.3	2.0
Ar-NH ⁺ <--> Ar-N + H ⁺	Acridine	5.5	10.6	5.6	0.1



$$\Delta pK = pK(T_1) - pK(S_0)$$

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Anthracene Zero-time Spectrum

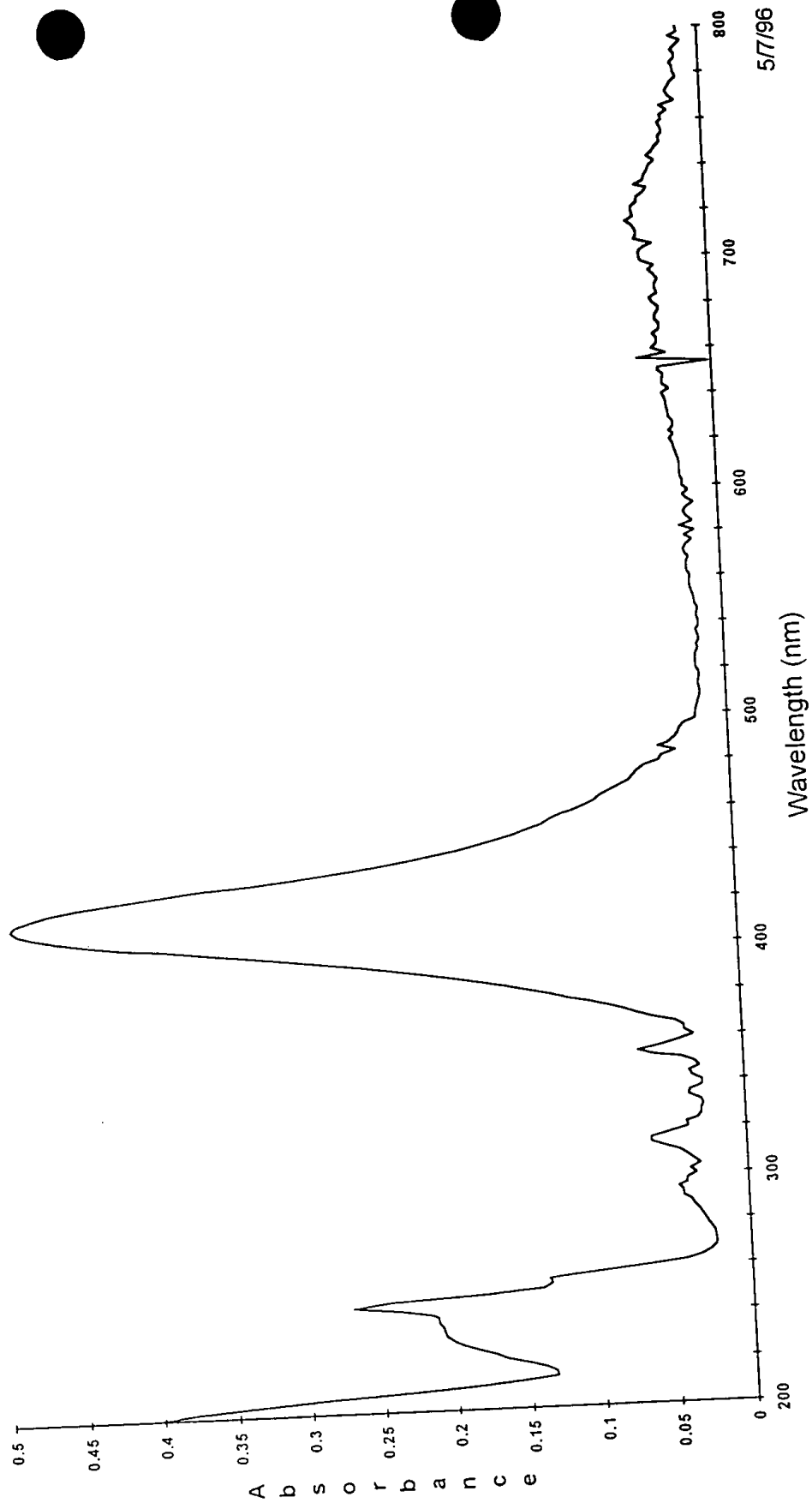


FIG 4

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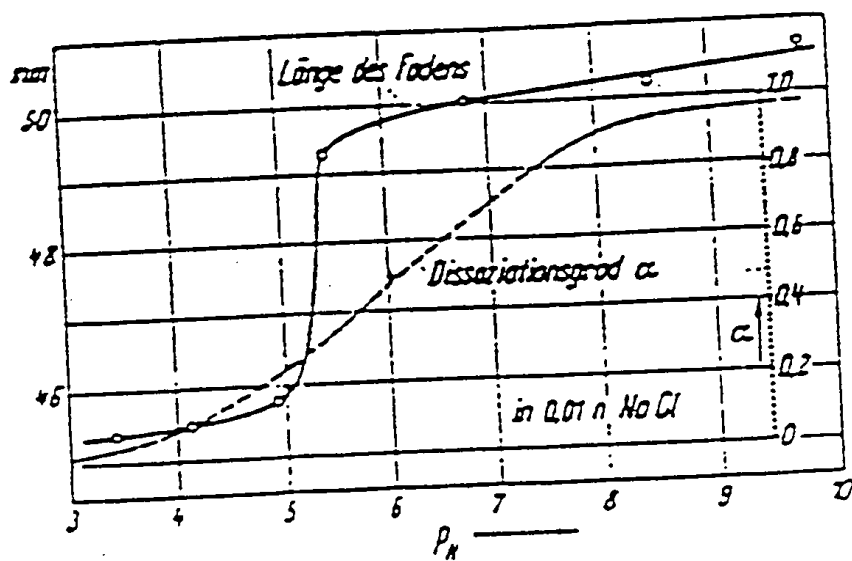


FIG. 5